CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/HM/W.No.15/CSR-04/314e/CEMENT/2017-18 Date: 07.04.2017

TEST REPORT ON CEMENT

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. H. Murthy,** #1271, 9th Main Road, 2nd Stage, WOC Road, Mahalakshmipuram, Bangalore – 560 086.
* Name of Work	:	Improvements & Construction of CC road Maheshwari & Dhaneshwari Nagara & B.T. Srinivas & Thamanna house roads & Chikka Anjanappa house road & other cross roads in Ward No.15, Dasarahalli, BBMP, Bangalore.
* Reference	:	EE/DD/WO/01/2017-18 Dated: 06.04.2017
* Sample ID	:	Cement
Sample Received on	:	06.04.2017
Period of Testing	:	06.04.2017 to 07.04.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	175 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	490 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

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VIDYARANI P.K.
Technical Manager

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/HM/W.No.15/CSR-04/314e/SAND-Gradation/2017-18 07.04.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. H. Murthy,** #1271, 9th Main Road, 2nd Stage, WOC Road, Mahalakshmipuram, Bangalore – 560 086.
* Name of Work	:	Improvements & Construction of CC road Maheshwari & Dhaneshwari Nagara & B.T. Srinivas & Thamanna house roads & Chikka Anjanappa house road & other cross roads in Ward No.15, Dasarahalli, BBMP, Bangalore.
* Reference	:	EE/DD/WO/01/2017-18 Dated: 06.04.2017
* Sample ID	:	Fine Aggregates
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	06.04.2017
Date of Testing	:	07.04.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	94.00	90-100	90-100	90-100	95-100
2.36	76.00	60-95	75-100	85-100	95-100
1.18	54.00	30-70	55-90	75-100	90-100
600 Micron	23.00	15-34	35-59	60-79	80-100
300 Micron	10.00	5-20	8-30	12-40	15-50
150 Micron	3.50	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/HM/W.No.15/CSR-04/314e/AGG/GR/2017-18 07.04.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. H. Murthy,** #1271, 9th Main Road, 2nd Stage, WOC Road, Mahalakshmipuram, Bangalore – 560
* Name of Work	:	Improvements & Construction of CC road Maheshwari & Dhaneshwari Nagara & B.T. Srinivas & Thamanna house roads & Chikka Anjanappa house road & other cross roads in Ward No.15, Dasarahalli, BBMP, Bangalore.
* Reference	:	EE/DD/WO/01/2017-18 Dated: 06.04.2017
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	06.04.2017
Date of Testing	:	07.04.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.30	95-100	85-100
20	36.30	30-70	0-20
10	15.30	10-35	0-5
4.75	2.60	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/HM/W.No.15/Steel/2017-18 07.04.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. H. Murthy,** #1271, 9th Main Road, 2nd Stage, WOC Road, Mahalakshmipuram, Bangalore – 560 086.
* Name of work	:	Improvements & Construction of CC road Maheshwari & Dhaneshwari Nagara & B.T. Srinivas & Thamanna house roads & Chikka Anjanappa house road & other cross roads in Ward No.15, Dasarahalli, BBMP, Bangalore.
* Reference	:	EE/DD/WO/01/2017-18 Dated: 06.04.2017
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	07.04.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	512	514	13.3	O.K	O.K

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#23/14, 7th Cross, 3rd Stage 4th Block,
Shakthi Ganapathinagar,
Basaveshwaranagar, Bangalore-560 079.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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Job No.: CTCE/BBMP/HM/W.No.15/CSR-04/314e/Cube/2017-18 17.04.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. H. Murthy,** #1271, 9th Main Road, 2nd Stage, WOC Road, Mahalakshmipuram, Bangalore – 560 086.
* Name of the work	:	Improvements & Construction of CC road Maheshwari & Dhaneshwari Nagara & B.T. Srinivas & Thamanna house roads & Chikka Anjanappa house road & other cross roads in Ward No.15, Dasarahalli, BBMP, Bangalore.
* Reference	:	EE/DD/WO/01/2017-18 Dated: 06.04.2017
* Sample ID	:	Road Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	17.04.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.04.2017	17.04.2017	8.125	328.6	14.60
2	10.04.2017	17.04.2017	8.206	330.8	14.70
3	10.04.2017	17.04.2017	8.335	350.6	15.58

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ಬೃಹತ್ ಬೆಂಗಳೂರು ಪಾಲಿಕೆ, ಬೆಂಗಳೂರು

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
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* Reference	:	EE/DD/WO/01/2017-18 Dated: 06.04.2017
* Sample ID	:	Road Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	17.04.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.04.2017	17.04.2017	8.138	330.6	14.69
2	10.04.2017	17.04.2017	8.229	343.5	15.27
3	10.04.2017	17.04.2017	8.359	348.2	15.48

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* Reference	:	EE/DD/WO/01/2017-18 Dated: 06.04.2017
* Sample ID	:	Road Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	7^{th} day
Sample Received on	:	18.04.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.04.2017	18.04.2017	8.138	325.6	14.47
2	11.04.2017	18.04.2017	8.225	329.8	14.66
3	11.04.2017	18.04.2017	8.309	339.6	15.09

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